

Claims

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Sub a317 1. Tool receiver for a grinder, in particular for a handheld angle grinder (10) having a carrier device (12, 14, 16, 182, 184, 300) via which an application tool (18, 32, 186, 188) can be actively connected to a drive shaft (54), characterized in that the application tool (18, 32, 186, 188) can be actively connected to the carrier device (12, 14, 16, 182, 184, 300) via at least one detent element (24, 26, 190, 192, 194, 196, 198, 200, 302) that can be moved against a spring force, that snaps into place in an operating position of the application tool (18, 32, 186, 188) and immobilizes the application tool (18, 32, 186, 188) with positive engagement.

2. Tool receiver for a grinder according to claim 1, characterized in that the spring force acts in the axial direction (44).

3. Tool receiver for a grinder according to claim 1 or 2, characterized in that a drive torque can be transferred via a positive connection between the application tool (18, 32, 186, 188) and the carrier device (14, 16, 182, 184, 300).

4. Tool receiver for a grinder according to one of the preceding claims, characterized in that the application tool (186, 188) can be connected to the carrier device (182, 184) via at least one carrier element (202, 204, 206, 208, 210, 212) located on the application tool (186, 188) and/or the carrier device (182, 184) extending in the axial direction (38), that it can be guided through at least one area of a slot (214, 216, 218, 220, 222, 224) of the corresponding counter-component (186, 188), moved along the slot (214, 216, 218, 220, 222, 224) and immobilized in an end position by means of the detent element (190, 192, 194, 196, 198, 200).

5. Tool receiver for a grinder according to claim 4, characterized in that the application tool (186, 188) can be immobilized with positive engagement in the

1 axial direction (38) via a seating surface (226, 278) of the carrier element (202,
2 204, 206, 208, 210, 212).

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4 6. Tool receiver for a grinder according to claim 4 or 5, characterized in that
5 the detent element (190, 192, 194, 196, 198, 200) is formed by an elastically
6 deformable component (228, 230).

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8 7. Tool receiver for a grinder according to claim 6, characterized in that at
9 least one detent element (190, 192, 194, 196, 198, 200) producing the spring
10 force is designed integrally connected to a tool hub (228, 230) of the application
11 tool (186, 188).

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13 8. Tool receiver for a grinder according to claim 7, characterized in that at
14 least one recess (236) is provided in a component (234) of the carrier device
15 (184) forming a bearing surface (232) for the application tool (188), into which a
16 part of the tool hub (230) is elastically pressed in an operating position of the
17 application tool (188).

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19 9. Tool receiver for a grinder according to claim 7 or 8, characterized in that
20 the slot (214, 216, 218, 220, 222, 224) is provided in the tool hub (228, 230) of
21 the application tool (186, 188), and at least one detent element (190, 192, 194,
22 196, 198, 200) is formed by a part of the tool hub (228, 230) in the vicinity of the
23 slot (214, 216, 218, 220, 222, 224).

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25 10. Tool receiver for a grinder according to claim 9, characterized in that the
26 slot (220, 222, 224) comprises a wide area (238, 240, 242) and at least one
27 narrow area in front of an end position (250, 252, 254) of the carrier element
28 (208, 210, 212) that forms the detent element (196, 198, 200).

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- 1 11. Tool receiver for a grinder according to one of the preceding claims,
2 characterized in that at least one detent element (24, 26, 302) is supported in a
3 fashion that allows it to move against a spring element (20, 22, 312).
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- 5 12. Tool receiver for a grinder according to claim 11, characterized in that the
6 detent element (24, 26, 302) can be released from its locked position using a
7 release button (28, 30).
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- 9 13. Tool receiver for a grinder according to claim 11 or 12, characterized in
10 that the application tool (18) is connected to the carrier device (12, 14, 300) in the
11 circumferential direction (34, 36) via at least a first element (24, 302) and, in the
12 axial direction (38), via at least a second element (40, 42, 306).
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- 14 14. Tool receiver for a grinder according to one of the preceding claims,
15 characterized in that at least one detent element (302) is integrally moulded on a
16 discoid component (304).
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- 18 15. Tool receiver for a grinder according to one of the preceding claims,
19 characterized in that at least two elements (306) for immobilizing the application
20 tool in the axial direction (38) are integrally moulded to a discoid component
21 (308).
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- 23 16. Tool receiver for a grinder, in particular an angle grinder (10), that can be
24 connected to a tool hub (52, 94, 228, 230) via a carrier device (12, 14, 16, 182,
25 184, 300) of a tool receiver for a grinder with a drive shaft (54) of a grinder (10),
26 characterized in that the tool hub (52, 94, 228, 230) can be effectively connected
27 to the carrier device (12, 14, 16, 182, 184, 300) via at least one detent element
28 (24, 26, 190, 192, 194, 196, 198, 200, 302) that can be moved against a spring
29 force, that snaps into place in an operating position of the tool hub (52, 94, 228,
30 230) and immobilizes the tool hub (52, 94, 228, 230) with positive engagement.

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